

LIS009636077B2

# (12) United States Patent

Braun et al.

# (54) METHOD AND SYSTEM FOR THE AUTOMATIC SELECTION OF A SCANNING PROTOCOL

(71) Applicant: **Siemens Aktiengesellschaft**, Munich

(72) Inventors: Christoph Braun, Rosenheim (DE);
 Dieter Böing, Forchheim (DE);
 Christiane Koch, Eggolsheim (DE);
 Robert Lapp, Nuremberg (DE);
 Michael Scheuering, Nuremberg (DE);
 Martin Sedlmair, Zirndorf (DE);
 Grzegorz Soza, Heroldsberg (DE)

(73) Assignee: SIEMENS

AKTIENGESELLSCHAFT, Munich

(DE)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 127 days.

(21) Appl. No.: 14/487,265

(22) Filed: Sep. 16, 2014

(65) Prior Publication Data

US 2015/0085971 A1 Mar. 26, 2015

(30) Foreign Application Priority Data

Sep. 25, 2013 (DE) ...... 10 2013 219 249

(51) **Int. Cl.**A61B 6/03 (2006.01)

A61B 6/00 (2006.01)

(Continued)

(Continued)

# (10) Patent No.:

US 9,636,077 B2

(45) **Date of Patent:** 

May 2, 2017

### (58) Field of Classification Search

CPC ........... A61B 6/032; A61B 6/46; A61B 6/461; A61B 6/465; A61B 6/5294; A61B 6/54; A61B 6/541; A61B 6/542; A61B 6/545 (Continued)

#### (56) References Cited

#### U.S. PATENT DOCUMENTS

5,400,378 A *	3/1995	Toth	A61B 6/032
			378/108
5,450,462 A *	9/1995	Toth	A61B 6/032
			378/108
(Continued)			

#### FOREIGN PATENT DOCUMENTS

CN 101004764 A 7/2007 CN 101010039 A 8/2007 (Continued)

## OTHER PUBLICATIONS

Office Action dated Apr. 25, 2016 in Chinese Patent Application No. 2014104957002.

Primary Examiner — Allen C. Ho (74) Attorney, Agent, or Firm — Harness, Dickey & Pierce, PLC

# (57) ABSTRACT

A method is disclosed for automatically selecting a scanning protocol for a tomographic recording of an X-ray image of a patient in that at least one patient-specific value is retrieved in the internal memory of a first computer. The patient-specific value can in particular be a measure of the anticipated X-ray absorption by the patient. The method includes automatically comparing the patient-specific value with retrievably stored reference values, wherein one scanning protocol can be associated with each reference value. Finally, a scanning protocol is automatically selected by way of the first computer using the comparison. Selection is simplified by automation of selection of the scanning protocol since no manual selection of the scanning protocol has (Continued)

